



KARNATAKA ICSE SCHOOLS ASSOCIATION

PREPARATORY EXAMINATION - JANUARY 2020

Class: X

Duration: 2 ½ hours

Subject: Mathematics

Max. Marks: 80

Date : 13/01/2020

Instructions

Answers of this Paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Attempt all questions from Section A and any four questions from Section B.

All working, including rough work, must be clearly shown and must be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

The intended marks for questions or parts of questions are given in brackets [].

Mathematical tables are provided.

Section A [40 marks]

Question 1

- (a) Using remainder and factor theorem, factorise the following polynomial: [3]
 $x^3 - 19x + 30$

- (b) A well of diameter 3 m is dug 14 m deep. The earth taken out of it has been spread evenly all around it in the shape of a circular ring of width 4 m to form an embankment. Find the height of the embankment. [3]

- (c) In the adjoining figure, ABCD is a parallelogram. E is a point on AB. CE intersects the diagonal BD at G and EF is parallel to BC. If $AE : EB = 1 : 2$, find
(i) $EF : AD$
(ii) area of ΔBEF : area of ΔABD [4]



Maths Preparatory Exams 2014 Memo

Randy E. Bennett, Matthias von Davier



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Maths Preparatory Exams 2014 Memo Book Review: Unveiling the Power of Words

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Table of Contents Maths Preparatory Exams 2014 Memo

1. Understanding the eBook Maths Preparatory Exams 2014 Memo
 - The Rise of Digital Reading Maths Preparatory Exams 2014 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Preparatory Exams 2014 Memo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Preparatory Exams 2014 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Preparatory Exams 2014 Memo
 - Personalized Recommendations
 - Maths Preparatory Exams 2014 Memo User Reviews and Ratings
 - Maths Preparatory Exams 2014 Memo and Bestseller Lists

5. Accessing Maths Preparatory Exams 2014 Memo Free and Paid eBooks
 - Maths Preparatory Exams 2014 Memo Public Domain eBooks
 - Maths Preparatory Exams 2014 Memo eBook Subscription Services
 - Maths Preparatory Exams 2014 Memo Budget-Friendly Options
6. Navigating Maths Preparatory Exams 2014 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Preparatory Exams 2014 Memo Compatibility with Devices
 - Maths Preparatory Exams 2014 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Preparatory Exams 2014 Memo
 - Highlighting and Note-Taking Maths Preparatory Exams 2014 Memo
 - Interactive Elements Maths Preparatory Exams 2014 Memo
8. Staying Engaged with Maths Preparatory Exams 2014 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Preparatory Exams 2014 Memo
9. Balancing eBooks and Physical Books Maths Preparatory Exams 2014 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Preparatory Exams 2014 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Preparatory Exams 2014 Memo
 - Setting Reading Goals Maths Preparatory Exams 2014 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Preparatory Exams 2014 Memo
 - Fact-Checking eBook Content of Maths Preparatory Exams 2014 Memo
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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